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MAR 3 1956

The Honorable James E. Hurray Chairman Committee on Interior and Insular Affairs United States Senate Washington, D. C.

Dear Senator Murray:

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This letter is in reply to your request of 21 Pehruary 1956 for additional information on titanium in the USSR and its Satel-lites.

I appreciate your requirement for unclassified information on titanium metal production and use in the Soviet Bloe. A review of Soviet policy regarding nonferrous metals, of which titanium is one, reveals that the Council of Ministers has declared information on reserves and extraction of all nonferrous metals to be "a state secret, the divulgence of which is punishable by law." (Isvestiya, 10 June 1947) This policy has actually been in effective operation since the mid-1930's. The result is that the Soviets have released no information on the status of its titanium industry, and only recently have released scientific publications dealing with the theoretical aspects of the metal. In the directives of the Communist Party of the Seviet Union on the Sixth Five-Year Plan objectives, the only reference made to titanium is that "prospected deposits" are to be "increased 40 - 45 percent." Mr. Ehrushehev in a speech to the 20th Party Congress on 14 February 1956 mentioned that, in the next tem years, production of titanium, along with aluminum and magnesium, is to be developed in Siberia. These references shed very little light on the question of Soviet production and use of titanium metal.

The American Netal Market statement, issue of \$7 January 1956, that Soviet Russia may be producing 90,000 to 95,000 tone of titanium annually has been traced to a source in the V.S. Bureau of Mines. The basis for the statement is the theoretical quantity of titanium that could be extracted from the titaniferous from ore (ilmenite) mined in the Urals area. A Soviet metallurgical journal, published in 1934, states that the ilmenite contains 54 percent iron, 14 percent titanium dioxide, and 0.6 percent vanadium pentoxide. The costs of processing such lean and refractory ore for its titanium

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content would be excessively high based on U.S. experience.

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Since 1952, several articles on titudies have appeared in Seviet ecientific publications. Among them is an article by I. I. Mornilev, "Titanium, Its Properties, Application, and Methods of Preparation," in Uspekhi Khimii (Progress of Chemistry), Vol. XXIII, No. 5, 1954. Another article by Kornilov, "Solubility of Chemical Elements in Titanium" was published in the Mar-Jone 1954 issue of Isvestive Akademii Mauk (Bulletin of the Academy of Sciences). Published in Izvestiya Akademii Henk SSGR, Otdel Tekh, Neuk (Bulletin of the Academy of Sciences USER, Division of Technical Sciences), No. 3, 1954, is an article by L. N. Sobolov, V. P. Yelyutin, and V. I. Kaleschy, into the Plastic Properties of Technical Titanium." Kernilev's bibliography, incidentally, consists almost emplicitally of reference materials of V.S. or other Pres World origin. It is quite apparent from these titles and all other available literature that the Sovieta are engaged in research on titanium metal, but such sources contain no information indicating that they are in fact extracting any of the titanium contained in their ilmenite or any other cree. Moreover, no evidence of the use of titunium metal in Soviet aircraft or in any other application has been found.

In recognition of the seriousness of the situation resulting from the puncity of information on titanium production and use in the Soviet Bloc, this Agency convered a meeting of titanium specialists from verious other interested Government agencies. The consensus of the group was that there existed a Government-wide shortage of information on Soviet titunium developments. It was also unanimously agreed that the extreme degree of secrecy covering titanium information reflects the importance placed on titenium by the Soviets.

You may be assured that we are giving serious attention to your request, and vill furnish you with new information as it becomes awailable.

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JAMES E. MURRAY, MONT., CHAIRM LINTON P. ANDERSON, N. MEX. RUSSELL B. LONG, LA. HENRY M. JACKSON, WASH. JOSEPH C. O'MAHONEY, WYO. W. KERR SCOTT, N. C.

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RICHARD L. CALLAGHAN, CHIEF CLERK

United States Senate

COMMITTEE ON INTERIOR AND INSULAR AFFAIRS

February 21, 1956

The Honorable Allen W. Dulles Director Central Intelligence Agency 2430 E Street, N. W. Washington, D. C.

Dear Mr. Dulles:

Thank you for your letter of February 18th relative to titanium in Russia.

I appreciate your offer to keep me informed as new information becomes available. As I am gathering this material for a report I want only such information as is unclassified, and, in fact, I do not see why any information on titanium metal production in Russia should be classified. Considering our own limited production and use, it seems to me the American people should know if Russian production and use is greater than ours. There should be some way of reasonably confirming or disproving the report you mention that Russian production of titanium metal amounts to 95,000 tons per year as, as you are aware, the principle use of titanium is in military aircraft.

Since ely yours,

JAMES E. MURRAY

Chairman

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